

# [GAS PIN WITH THERMOCOUPLE FOR GAS ASSISTED INJECTION MOLDING]

## Abstract

A method and system for forming an injection molded plastic part. After the injection of plastic material has started, a volume of gas from a fixed volume reservoir is introduced into the plastic material at a low pressure forming a hollow cavity. The gas is introduced into the mold by a gas pin having a temperature sensing device, such as a thermocouple, positioned on it. The introduction of this volume of gas is initiated when the temperature of the plastic material in the mold has reached a predetermined value. After the mold is filled and packed with plastic, pressurized gas is introduced into the hollow cavity forming the completed plastic part.